

Our Reference: RC215104 / 210715115582
Valuation Reference: 2161410069

15 July 2021

Ravenswood Developments Limited
78 Ardmore Street
WANAKA 9305

Dear Sir/Madam

**DECISION ON RESOURCE CONSENT APPLICATION – STAGE 4
RAVENSWOOD DEVELOPMENTS LIMITED - 50 BOB ROBERTSON DRIVE, WOODEND**

Please find enclosed a copy of the decision reached by the Officer under delegated authority from the Council on the above application.

Yours faithfully



Ian Carstens
RESOURCE MANAGEMENT PLANNER

Encl

WAIMAKARIRI DISTRICT COUNCIL

IN THE MATTER of the Resource Management Act 1991

AND

IN THE MATTER of an application lodged by **Ravenswood Developments Limited** for a resource consent under Section 88 of the aforementioned Act.

APPLICATION

The applicants sought a resource consent to create 225 allotments on a balance lot having a total area of 68.3ha. It has been proposed also to create six roads, five local drainage reserves, one recreation reserve and two link strips (Lot 2006 and 2007).

This application is for Stage 4 of the Ravenswood residential subdivision located approximately 1.5km north of Woodend.

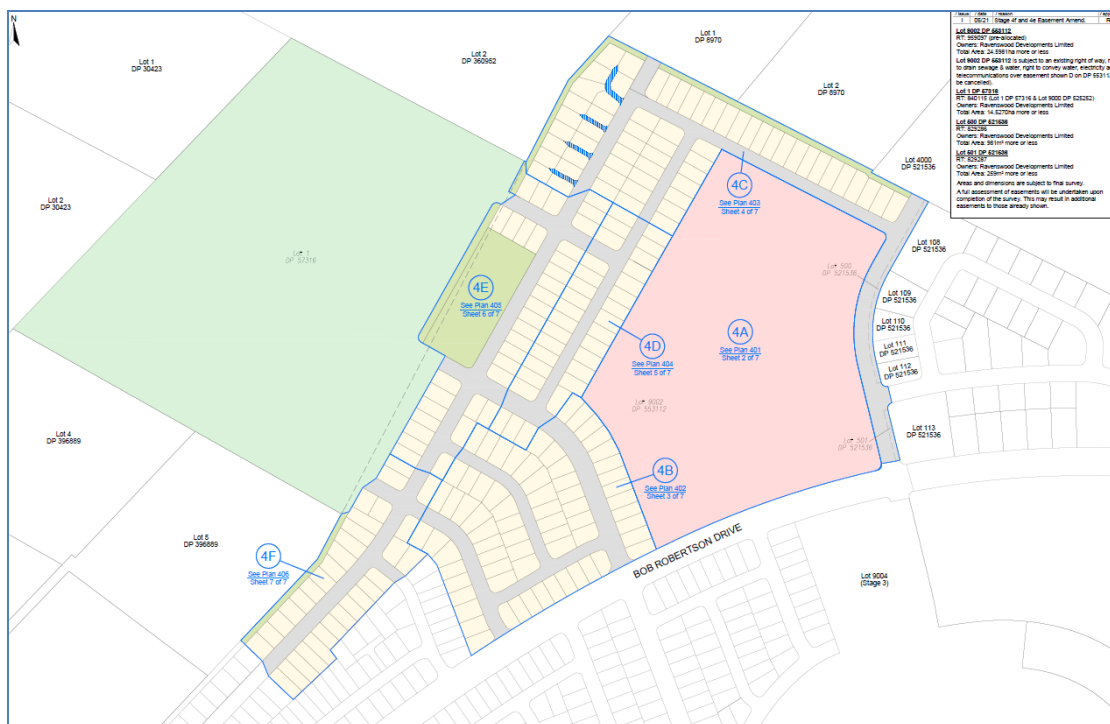


Figure 1 showing a scheme plan of the proposed subdivision

5.2 The application has been planned in six sub-stages as outlined below:

Stage 4a

- One fee simple allotment with an area of 8.7018ha (Lot 4000) for future development, and a balance lot (Lot 9000) of 30.53 ha.

Stage 4b

- 68 fee simple allotments with areas ranging between 400m² and 550m² (Lots 535 to 602); and
- One road to be vested in Council (Lot 3000) and balance lot (Lot 9001).

Stage 4c

- 60 fee simple allotments with areas ranging between 400m² and 614m² (Lots 603 to 662);
- Four roads to be vested in Council (Lots 3001, 3002, 3003 and Lots 500 and 501 DP 521536);
- Two link strips (Local Purpose Reserve) to be vested in Council (Lots 2006 and 2007); and
- Two local purpose (drainage) reserves (Lots 2000 and 2001) and balance lot (Lot 9002).

Stage 4d

- 32 fee simple allotments with areas ranging between 400m² and 497m² (Lots 663 to 694); and
- One road to be vested in Council (Lot 3003) and balance lot (Lot 9003).

Stage 4e

- 33 fee simple allotments with areas ranging between 400m² and 550m² (Lots 695 to 727);
- One road to be vested in Council (Lot 3004);
- Two local purpose (drainage) reserves (Lots 2003 and 2004); and
- One local purpose (recreation) reserve (Lot 2002) and balance lot (Lot 9004).

Stage 4f

- 32 fee simple allotments with areas ranging between 400m² and 550m² (Lots 728 to 759);
- One road to be vested in Council (Lot 3005); and
- One local purpose (drainage) reserve (Lot 2004 and balance lot (Lot 9005).

The subdivision application is supported by a land use application to erect dwellings on lots exceeding the permitted 35% site coverage requirement (40% proposed). One dwellinghouse is to be established on each proposed lot and the lots range in area between

400m² to 614m². However, the applicant has offered a number of urban design controls including bulk and location matters (site coverage, recession planes, setbacks and height) to ensure any future dwellings attain a Residential 6 character despite their non-complying status.

Consent is also sought for earthworks exceeding permitted activity standards and to install non-complying vehicle crossings that do not meet separation requirements and setbacks to intersections on certain lots.

The previous Stages (1A, 1B and 2) have been subject to engineering plans and approvals where titles have been issued for Stage 1A, Stage 1B and Stage 2.

Stage 3A has received its Section 223 and 224c certification.

DECISION

The Delegated Officer, on the 15th July 2021, approved:

Subdivision – RC215104

THAT pursuant to Section 104B of the Resource Management Act 1991, consent be granted to subdivide 45 Bob Robertson Drive, Woodend, being Lot 9001 DP 533428 and Lot 1 DP 57316, Lots 500 and 501 DP 521536 into 225 residential lots (Lots 535-759 inclusive), six road reserves to vest (Lots 3000, 3001, 3002, 3003, 3004 and 3005), five local purpose (drainage) reserves (Lots 2000, 2001, 2003, 2004 and 2005), one local purpose (recreation) reserve (Lot 2002), two link strips as local purpose reserve to be vested in Council (Lots 2006 & 2007) and one balance lot (Lot 4000) as a Non-Complying Activity subject to the following conditions which are imposed under Section 108 of the Act:

1. Application Plans

1.1 The activity shall be carried out in accordance with the attached approved application plans stamped RC215104 and RC215105.

2. Staging

2.1 The Consent Holder may stage the development provided all associated conditions have been completed at each stage to the Council's satisfaction and that the balance lots remain complying lots under the Waimakariri District Plan. Stages can be undertaken simultaneously, however, shall not deviate from the following:

Stage 4a

- One fee simple allotment with an area of 8.7018 ha (Lot 4000) for future development, and
- Lot 9000 being the balance lot.

Stage 4b

- Lots 535 to 602 inclusive
- One road to be vested in Council (Lot 3000)
- Lot 9001 being the balance lot.

Stage 4c

- Lots 603 to 662

- Two roads to be vested in Council (Lots 3001 and 3002)
- Two link strips as local purpose reserve to be vested in Council (Lots 2006 and 2007)
- Two local purpose (drainage) reserves (Lots 2000 and 2001); and
- Lot 9002 being the balance lot.

Stage 4d

- Lots 663 to 694
- One road to be vested in Council (Lot 3003)
- Lot 9003 being the balance lot

Stage 4e

- Lots 695 to 727
- One road to be vested in Council (Lot 3004);
- Two local purpose (drainage) reserves (Lots 2003 and 2004);
- One local purpose (recreation) reserve (Lot 2002); and
- Lot 9004 being the balance lot.

Stage 4f

- Lots 728 to 759
- One road to be vested in Council (Lot 3005);
- One local purpose (drainage) reserve (Lot 2005); and
- Lot 9005 being the balance lot.

3. Standards

3.1 All stages of design and construction shall be in accordance with the following standards (and their latest amendments) where applicable:

- Waimakariri District Council Engineering Code of Practice
- Waimakariri District Council Stormwater Drainage and Watercourse Protection Bylaw (2018)
- Erosion & Sediment Control Toolbox For Canterbury
- NZS 4404:2010 Land Development and Subdivision Infrastructure
- NZS 4431:1989 Earthfill for Residential Development
- National Code of Practice for Utility Operator's Access to Transport Corridors (10 September 2015 with amendment 16 September 2016)
- MOTSAM - Manual of Traffic Signs and Markings
- New Zealand Transport Agency standards
- Relevant Austroads Guides & Standards
- NZS 1158:2010 Code of Practice for Road Lighting
- NZS 6803:1999 Acoustics for Construction Noise
- GermanDIN4150 Standard, Part 3 (1999), Effects of Vibration on Structures
- New Zealand Drinking Water Standards 2005 (Revised 2018)
- New Zealand Pipe Inspections Manual AS/NZS 2845.1:2010 Water Supply: Backflow Prevention Devices: Materials, Design and Performance requirements

- New Zealand Industry Standard: Field Testing of backflow prevention devices and verification of air gaps
- New Zealand Pipe Inspections Manual
- Compliance Document for New Zealand Building Code Clause F4 Safety from Falling - Third Edition
- SNZ PAS 4509:2008 New Zealand Fire Service Fire Fighting Water Supplies Code of Practice

4. Easements

- 4.1 All services, including open drains and access ways, serving more than one lot or traversing lots other than those being served and not situated within a public road or proposed public road, shall be protected by easements. All such easements shall be granted and reserved.

5. Lots to Vest

- 5.1 Lot 2002 shall vest as Recreation Reserve in the Waimakariri District Council.
- 5.2 Lots 3000, 3001, 3002, 3003, 3004, 3005, shall vest as Road in the Waimakariri District Council.
- 5.3 Lots 2000, 2001, 2003, 2004 and 2005 shall vest as Local Purpose (Drainage) Reserve in the Waimakariri District Council.
- 5.4 Lots 2006 and 2007 shall vest as Local Purpose Reserve in Waimakariri District Council.

6. Design of Reticulated Services/Engineering Plan Approvals

- 6.1 Electronic copies of the design, plans, design reports and specifications of all works shall be submitted to the Council for approval prior to works commencing. Approval of complying documents shall be given in writing and work shall not commence until this approval has been received from the Council.
- 6.2 The Consent Holder shall submit engineering plans, specifications, design report and a design certificate, of all works to the Council for approval. No work shall commence until formal approval in writing has been provided by Council. The design certificate shall be signed by a Chartered Professional Engineer.
- 6.3 The Consent Holder shall forward with the engineering plans, design reports and specifications, copies of any other consents granted in respect of this subdivision.
- 6.4 Any subsequent amendments to the design, plans, and specifications shall be submitted to Council for approval in writing.

- 6.5 The Consent Holder shall ensure the supervising Engineer / Surveyor supplies a certificate signed by a Chartered Professional Engineer to the Council stating that all works have been designed in accordance with the appropriate standards.
- 6.6 The Consent Holder shall submit a geotechnical report for Council approval presenting further geotechnical investigations required as part of detailed subdivision engineering design by Tonkin & Taylor Ltd. (Council record Trim 210302035131). This shall include additional ground investigations to provide sufficient testing to achieve a “Level C” level of detail as recommended for urban subdivision consent in the MBIE/MfE 2017 guidance.

7. Supervision and Setting Out

- 7.1 The Consent Holder shall, prior to the commencement of any works, engage a Chartered Professional Engineer or Registered Professional Surveyor, to manage the construction works including ensuring a suitably qualified person oversees all engineering works and setting out.
- 7.2 The Consent Holder shall ensure the supervising Engineer/Surveyor submits a programme of inspection intended to meet the requirements of Condition 7.1 at the time of submitting the engineering plans and specifications.
- 7.3 The Consent Holder shall ensure the supervising Engineer/Surveyor supplies to Council a certificate signed by a Chartered Professional Engineer, stating that all works and services associated with the subdivision have been installed in accordance with the approved engineering plans and specifications and that the “As Built” plans are a true and accurate record of all works and services as constructed. This certificate shall be supplied prior to requesting the Section 224(c) Conditions Certificate.
- 7.4 The Consent Holder shall ensure the supervising Engineer/Surveyor forwards to Council copies of site inspection notes for all site supervision visits. These shall be forwarded within five working days of the date of the site visit.
- 7.5 Certificates shall be given to the Waimakariri District Council for all testing undertaken. Copies of the certificates shall be forwarded to Waimakariri District Council every ten working days.

8. Earthworks

- 8.1 Where land filling is to be undertaken the areas affected, together with dimensions relative to the created property boundaries, shall be shown on the ‘As Built’ plans to be supplied to the Council.
- 8.2 Any areas of fill or earthworks not certified in accordance with NZS 4431 shall, together with sufficient dimensions to locate the feature from property boundaries, as shown on the ‘As Built’ plans.

- 8.3 Where excavated cut material is greater than 200mm in thickness, the Consent Holder shall undercut and replace with 100mm minimum of compacted topsoil.
- 8.4 Earthworks, reshaping or fill shall not alter natural ground level by more than 300mm where it is carried out within 2 metres of the boundary of the site.
- 8.5 Earthworks, reshaping or fill shall not alter natural ground level by more than 600mm where it is carried out within 2-10 metres of the boundary of the site.
- 8.6 The Consent Holder shall ensure all rubbish, organic or other unsuitable material shall be removed off site to an approved disposal facility where this material can be legally disposed of.
- 8.7 During all earthworks the Consent Holder shall employ dust containment measures, such as watering, to avoid off site nuisance effects created by dust.
- 8.8 The Consent Holder shall ensure no earthworks, reshaping or fill shall impede or reshape any drain, overland flow path or channel and shall not create ponding of stormwater in any adjacent land in separate ownership. Stockpiles of excavated material or fill shall be located a minimum of 100 metres away from neighbouring dwellings. The height of stockpiles shall be limited to 8.0 metres above surrounding ground level. Any stockpile not removed after a period of 4 weeks shall be grassed to prevent sediment migration.
- 8.9 Where material needs to be imported on to site, the Consent Holder shall provide details of the source and type of material, laboratory tests to confirm mode of compaction, type and frequency of transportation and route used to enter the site to Council, in writing, prior to works commencing.
- 8.10 The Consent Holder shall ensure all construction operations shall be limited to 7am to 7pm Monday to Saturday. No construction work shall take place on Sundays or Public Holidays.
- 8.11 The Consent Holder shall ensure all lots are shaped to slope to the roadside kerb and channel / swale / to the head of the right of way serving each lot / to an approved outfall, without discharging across adjacent lots.
- 8.12 Reserves to be vested in Council shall be levelled and covered with a minimum 150mm of screened topsoil and subject to engineering approval, grassed and landscape planted as per the Waimakariri District Council Engineering Code of Practice.
- 8.13 The Consent Holder shall provide a Producers Statement from a Chartered Professional Engineer confirming that the land on all residential lots is suitable for residential houses and foundations.
- 8.14 The consent holder shall create construction site accesses with the following minimum requirements:

- a) The access shall be formed and sealed generally in accordance with Waimakariri District Council Standard Drawing 600-218 issue E with a 10 metre metalled strip into the site.
- b) The throat width shall be a minimum of 6.0 metres.
- c) A 5 metre long shaker ramp shall be installed at the site end of the metalled strip, with provision for wheel wash facilities if required.

9. Environmental Management Plan

- 9.1 Prior to any works commencing on site the Consent Holder shall provide an Environmental Management Plan (EMP) to the Council for approval. The EMP shall detail the methodology of works and the environmental controls in place to limit effects from issues involving flooding, dust, noise and other pollutants. No works shall occur until this EMP has been submitted and approved by Council in writing.
- 9.2 The Consent Holder shall be responsible for installing and maintaining any sediment control devices, protection of the existing land drainage and waterways, and making regular inspections, repairs and changes to the proposed measures as required.
- 9.3 Any required amendments to the EMP as a result of adverse site conditions shall be submitted in writing to Council.
- 9.4 Construction noise shall not exceed the recommended limits specified in, and shall be measured and assessed in accordance with, the provisions of NZS: 6803: P1999 "Measurement and Assessment of Noise from Construction, Maintenance, and Demolition Work". Adjustments and exemptions provided in clause 6 of NZS: 6803: P1999 shall apply.
- 9.5 The Consent Holder shall obtain the Council's approval, in writing, prior to undertaking works that do not accord with the EMP as a result of adverse site conditions or because amendments are required.

10. Construction Traffic Management Plan

- 10.1 The Consent Holder shall submit for approval a Construction Traffic Management Plan (CTMP) detailing traffic control works (including sketch layout and control signs). This plan may be submitted at the time of engineering plan approval and shall be submitted prior to work commencing in road reserves. Management shall be to Level 1, or Level LV where the estimated traffic volume is less than 500 vehicle per day, as described in the NZTA Code of Practice for Temporary Traffic Management.
- 10.2 The CTMP shall, as a minimum include the following:
 - (a) A location plan showing the proposed works, site access points, site yard, and any other point on the local roading network to be regularly accessed during the works.
 - (b) A schedule of various work stages and anticipated traffic generation.

- (c) A schedule of roads to be used for haul roads for supply of materials, as well as haul roads used between various stages/locations of the work site.
 - (d) The hours during which traffic will be generated in the vicinity of the site.
 - (e) Identification of events, holidays and other periods when traffic patterns are likely to be uncharacteristic
 - (f) Details of signage, speed restrictions, detours, road closures and any other traffic management provisions to meet the requirements described in the NZTA Code of Practice for Temporary Traffic Management.
 - (g) Contact names and telephone numbers, including 24 hour emergency contact details.
- 10.3 The consent holder shall meet with Councils Roading Compliance Engineer to discuss the requirements of the Temporary Traffic Management, with submission of all required Traffic Management Plans to be approved by Council, in writing, prior to any works commencing on site.
- 10.4 The Consent Holder shall review and change the CTMP if and when required, in conjunction with the relevant stakeholders. Any changes shall be submitted to the Council for approval.

11. Water Supply

- 11.1 The Consent Holder shall provide a potable reticulated domestic water supply to service the development (Lots 535 to 759 inclusive) including Lot 2002 (Local Purpose Recreation reserve) by installing a main and submain to the new trunk main running along Bob Robertson Drive, constructed as part of Stage 2; which then joins the Woodend and Pegasus Waimakariri District Council water networks. All works shall be completed in accordance with the approved plans and specifications.
- 11.2 All water supply works shall be designed and constructed in accordance with the WDC Engineering Code of Practice (ECOP). Final details and design shall be accepted during the engineering approval process.
- 11.3 The Consent Holder shall install the internal subdivision reticulated water system that incorporates the following minimum requirements:
- (a) The installation of 200mm, 150mm or 100mm diameter minimum PN 12 rated water mains within the roads to vest.
 - (b) The installation of 50mm (DN63 OD MDPE) PN 12.5 PE sub mains.
 - (c) The installation of an appropriate number of medium pattern screw down fire hydrants on all new water mains in the roads in accordance with the requirements of the Waimakariri District Council Engineering Code of Practice.
 - (d) Separate 15mm diameter service connection pipes from the 50mm submain to a toby box for each residential lot.

- (e) Toby boxes and valves at the road reserve frontage for each residential lot.
 - (f) Individual 20mm service connection pipes from the toby box to a point a minimum of 1 metre inside the boundary of the lots or if access is via a right of way to a minimum of 1 metre within the main body of the rear lots.
- 11.4 The Consent Holder shall design the water system to incorporate resilience to earthquake events. The following requirements shall be met unless specifically authorised otherwise in writing by the 3 Waters Manager of the Council:
- (a) Maximum depth to pipe invert of 1.5m.
 - (b) The water reticulation shall be designed and constructed to withstand an Ultimate Limit State (ULS) earthquake event with a Peak Ground Acceleration of 0.35g with no more than 100mm vertical deviation and 200mm of horizontal deviation in any 50m length of main over 95% of the water reticulation system.
 - (c) The design shall be resilient, and shall incorporate specific resilient design components, including ground improvement where necessary, and the use of non-liquefiable backfill such as compacted AP65 or similar.
- 11.5 The Consent Holder shall employ a suitably experienced Chartered Professional Engineer to prepare a report, which shall certify that the design and construction achieves the criteria of Conditions 11.3 and 11.4. This report shall be prepared upon completion of the works and submitted to Council, in writing to be approved prior to the issue of the Section 224(c) conditions certificate.
- 11.6 The Consent Holder shall engage the Council's Water Unit to connect any new reticulation to the existing reticulation at the expense of the Consent Holder.
- 11.7 The Consent Holder shall apply to Council's Water Asset Manager for approval to connect to the Council's existing water reticulation. The approval shall be given before works commence on Council's reticulation.
- 11.8 All mains in the road reserve and public access ways shall be vested in Council.
- 12. Sewerage**
- 12.1 The Consent Holder shall install a reticulated sewer system to service the development (Lots 535 to 759) including Lot 2002 (Local Purpose Recreation reserve) in accordance with approved plans and specifications.
- 12.2 The Consent Holder shall connect the new infrastructure servicing this development to the existing sewer reticulation within Bob Robertson Drive, constructed as part of Stage 2, before discharging to the existing sewer Pump

Station 4, also constructed as part of Stage 2.

- 12.3 The Consent Holder shall install the reticulated sewer system that incorporates the following minimum requirements:
- (a) The Consent Holder shall connect all lots by individual lateral connections to new infrastructure to be constructed in the Stage 4 development works.
 - (b) The Consent Holder shall install 150mm and 225mm minimum diameter mains in all roads to vest at the gradients set out in the Waimakariri District Council Engineering Code of Practice.
 - (c) The Consent Holder shall install domestic sewer laterals from the nearest main to a minimum of 1.0 metre inside the main body of all lots. All laterals shall be laid perpendicular to the main.
 - (d) All sewer works shall be designed and constructed in accordance with the WDC Engineering Code of Practice (ECOP). Final details and design shall be accepted during the engineering approval process.
- 12.4 The sewer system shall be designed to incorporate resilience to settlement. Specifically, where gravity sewer systems are to be constructed in land prone to ground settlement, then the gravity sewer shall meet the following requirements over 95% of the gravity reticulation system unless specifically authorised otherwise, in writing, by the 3 Waters Manager of the Council:
- a) Maximum depth to pipe overt of 3.0 metres.
 - b) Minimum grade of 1:200.
 - c) The sewer shall be designed and constructed to withstand settlement due to ground consolidation, with no more than 50mm vertical deviation and 100mm of horizontal deviation in any 50m length of main over 95% of the gravity reticulation system.
 - d) The design shall be resilient, and shall incorporate specific resilient design components, including ground improvement where necessary, geotextile wrapping of all pipe joints, elongated pipe joints at junctions and manholes, and the use of backfill such as compacted AP65 or similar. Other specific resilient design and construction techniques shall be considered where necessary, such as geotextile wrapping of the trench bedding and backfill.
- 12.5 The Consent Holder shall engage a suitably qualified Chartered Professional Engineer to prepare an Engineering & Geotechnical report which shall certify that the design and construction of all infrastructure achieves the criteria of Conditions 12.3 and 12.4. This report shall be prepared upon completion of the works and submitted to Council, in writing to be approved prior to the issue of the Section 224(c) conditions certificate.

- 12.6 All sewer mains, including laterals to the boundary, shall be sighted for line and grade, air tested and inspected at the expense of the Consent Holder.
- 12.7 Connections to the existing Council reticulation shall be carried out by a Council approved contractor at the expense of the Consent Holder following application to the Council.
- 12.8 The Consent Holder shall apply to Council's Wastewater Asset Manager for approval to connect to the Council's existing sewer reticulation. The approval shall be given before works commence on Council's reticulation.
- 12.9 All sewer mains (excluding laterals) shall be inspected in accordance with the following:
- a) All sewer mains (excludes laterals) to be vested in Council ownership shall be internally cleaned and inspected by a CCTV survey, carried out after completion of all construction works to confirm acceptability of workmanship and compliance with the Waimakariri District Council Engineering standards and pipe manufacturer's product specifications.
 - b) The CCTV inspection shall be undertaken in accordance with the "3rd Edition of the New Zealand Pipe Inspection Manual (NZPIM)" and in accordance with the Waimakariri District Council Engineering Code of Practice.
 - c) The sewer mains shall be scored from the CCTV footage in accordance with the NZPIM by a suitably qualified person, and the score sheets together with the CCTV footage shall be provided to the Council.
 - d) The sewer mains shall be free from leaks, dips, deviations and other defects that will adversely affect the function or life of the sewer assets.
- 12.10 All mains in the road reserve and public access ways shall be vested in Council.

13. Stormwater

- 13.1 The Consent Holder shall install all stormwater reticulation to service each lot (Lots 535 to 759) within the subdivision in accordance with the approved plans and specifications.
- 13.2 The Consent Holder shall install stormwater reticulation to collect all stormwater from the hardstand areas within the subdivision, including the roofs and hardstand areas associated with the development and shall convey the flow via roadside drainage to the stormwater management area for treatment and attenuation.
- 13.3 The Consent Holder shall connect the new gravity stormwater reticulation servicing the development to the existing stormwater reticulation within Bob Robertson Drive, constructed as part of Stage 2, before, discharging to the

existing North Stormwater Management Area.

- 13.4 The Consent Holder shall design and provide the stormwater reticulation to accommodate a 20% A.E.P (1 in 5-year) storm derived from rainfall figures from NIWAs HIRDS Version 3 plus a 16% allowance for climate change for the subdivision location.
- 13.5 The Consent Holder shall provide for secondary flow paths with a design capacity to accommodate flows all events up to and including the critical duration for the 2% AEP storms (1 in 50 year). The flow path shall be clearly shown on design plans with the design of the flow path, including flow depths related to cross sections through the flow path provided to clearly demonstrate dwellings will not be flooded following the proposed earthworks. The design shall be provided to Council for approval at the time of engineering approval.
- 13.6 All stormwater mains shall be sighted for line and grade and inspected in accordance with the following:
- a) All stormwater mains (excludes laterals) to be vested in Council ownership shall be internally cleaned and inspected by a CCTV survey, carried out after completion of all construction works to confirm acceptability of workmanship and compliance with the Waimakariri District Council Engineering Code of Practice and the pipe manufacturer's product specifications.
 - b) The CCTV inspection shall be undertaken in accordance with the "3rd Edition of the New Zealand Pipe Inspection Manual (NZPIM)" and in accordance with the Council's Engineering Code of Practice.
 - c) The stormwater mains shall be scored from the CCTV footage in accordance with the NZPIM by a suitably qualified person, and the score sheets together with the CCTV footage shall be provided to the Council.
 - d) The stormwater mains shall be scored to be free from leaks, dips, deviations and other defects that will adversely affect the function or life of the stormwater assets.
- 13.7 All mains in the road reserve and public access ways shall be vested in Council.

14. Power and Telephone

- 14.1 The Consent Holder shall engage a utility network operator to provide underground electrical and telecommunication reticulation to the main body of each lot (Lots 535 to 759).
- 14.2 The Consent Holder shall provide evidence in writing from a utility network operator that electrical and telephone reticulation has been installed to each lot (Lots 535 to 759) and that all costs have been met.

15. Roading

- 15.1 The Consent Holder shall design, construct and test all roading and footpaths to service the development in accordance with the approved plans and specifications and the requirements set out in the Waimakariri District Council Engineering Code of Practice (refer to Standard Drawing 600-272 (Issue D)). To that effect, the following general road layouts shall be used:
- a) Collector Road - 20 m legal width with an 11m sealed carriageway, 1.5m wide footpath on both sides of the road, 1.25m corridor for services on both sides of the road.
 - b) Local Road - 16m legal width with a 9 m sealed carriageway, 1.6m wide footpaths on both sides of the road and street trees on one side of the road.
 - c) Secondary Local Road - 13m legal width with a 7.2m sealed carriageway, 1.65m wide footpath on one side of the road and street trees on one side of the road.
- 15.2 A design report approved by a suitably qualified CPEng Engineer shall be submitted for approval as part of Engineering Approval process and shall include a Safety Audit Report which is to be prepared by a suitably qualified Safety Audit Traffic Engineer.
- 15.3 The Consent Holder shall provide kerb pedestrian cut downs and tactile pavers at all intersections.
- 15.4 The consent holder shall install road closure signs and chevron board at the end of each closed road at each stage of works. Signage shall be in accordance with MOTSAM.
- 15.5 The Consent Holder shall carry out Benkelman Beam tests or other approved in situ formation bearing tests following completion of the base course layer and prior to sealing. Council shall approve the test results.
- 15.6 The Consent Holder shall carry out Clegg Hammer testing of footpath and kerb formation bearing tests following completion of the base course layer and prior to concreting/surfacing. A measured minimum Clegg Impact Value of 25 for footpaths and 35 for kerb formation shall be obtained to assure adequate compaction and pavement strength prior to sealing/pouring concrete.
- 15.7 Sealing shall comprise a 30mm thick AC10 asphalt surface overlaying a single hot bitumen Grade 5 chip seal coat or equivalent if specifically approved by the Council's Roothing Manager.
- 15.8 The Consent Holder shall submit plans of all proposed road markings and traffic control signs for approval as part of the Engineering approval process.
- 15.9 The Consent Holder shall ensure that all temporary and permanent dead ends need to be formed and sealed as hammerheads or cul-de-sacs are designed in

accordance with the engineering design approval.

16. Access

- 16.1 No vehicle access for Lot 535 and Lots 593-602 inclusive shall be located to directly access onto Bob Robertson Drive (Collector Road).
- 16.2 Condition 16.1 shall be subject to a Consent Notice pursuant to section 221 of the Resource Management Act 1991 to register on the Records of Title for Lot 535 and Lots 593-602 inclusive.
- 16.3 The vehicle crossings for Lots 594 and 602 shall be located to access onto Road 21 (Local Road), as shown on the approved application plans stamped RC215104 and RC215105.
- 16.4 Condition 16.3 shall be subject to a Consent Notice pursuant to section 221 of the Resource Management Act 1991 to register on the Records of Title for Lots 594 and 602.
- 16.5 On-site manoeuvring for an 85th percentile car shall be provided on Lots 573-594 (inclusive), Lots 676-680 (inclusive), and Lots 716-718 (inclusive) to ensure that no vehicle needs to reverse onto a Collector Road.
- 16.6 Condition 16.5 shall be subject to a Consent Notice pursuant to section 221 of the Resource Management Act 1991 to register on the Records of Title for Lots 573-594 (inclusive), Lots 676-680 (inclusive), and Lots 716 - 718 (inclusive).
- 16.7 The northern edge of the vehicle crossing for Lot 535 shall be located within 1 metre of the northern internal boundary of the lot.
- 16.8 Condition 16.7 shall be subject to a Consent Notice pursuant to section 221 of the Resource Management Act 1991 to register on the Records of Title for Lot 535.
- 16.9 The northern edge of the vehicle crossing for Lot 593 shall be located within 1 metre of the northern internal boundary of the lot.
- 16.10 Condition 16.9 shall be subject to a Consent Notice pursuant to section 221 of the Resource Management Act 1991 to register on the Records of Title for Lot 593.

17. Rights of Way

- 17.1 The Consent Holder shall form and seal the right of way serving Lots 624 to 628 inclusive, Lot 631, Lot 632, Lot 635, Lot 636, Lot 639 and Lot 640 to accord with the requirements of the Waimakariri District Council Engineering Code of Practice Standard Drawing 600-274 Issue D.
- 17.2 The Consent Holder shall Clegg Hammer test the rights of way prior to sealing. A measured Clegg Impact Value of at least 25 shall be obtained to assure adequate compaction and pavement strength prior to sealing. Documentation shall be supplied to Council confirming the test results obtained.

18. Landscaping

- 18.1 Prior to any works commencing on site a landscaping plan shall be submitted to the Council for approval in writing. This landscape plan should include an installation and maintenance regime, streetscapes and all reserves including grassing and tree locations and consideration shall be given to locally sourced indigenous vegetation as part of the landscaping plan.
- 18.2 The Consent Holder shall grass all lawn areas in the reserves and berms. All planted areas shall be mulched and trees, shrubs and fixtures installed in accordance with the Waimakariri District Council Engineering Code of Practice Section 10.
- 18.3 The Consent Holder shall plant and stake all trees in the green space reserves and streets to meet the following minimum requirements:
- a) The trees in reserves are to be a minimum of 2m off paths and road boundaries, 4m off residential boundaries and a minimum of 4m apart.
 - b) Each tree shall have a single leader and shall be a minimum of 2.5 metres in height at the time of planting.
- 18.4 The Consent Holder shall maintain all street trees for a period of two years from planting, and any dead or damaged plants shall be replaced on failure as per Condition 28 (bond) of this consent.

19. Street Names

- 19.1 The Consent Holder shall submit three names for the road signs for each road to the Council for approval and, once approved, shall install the street name signs and poles at all road intersections.
- 19.2 The Consent Holder shall provide and install the street name signs and poles at each intersection to the requirements of the Waimakariri District Council Engineering Code of Practice.

20. Lighting

- 20.1 The Consent Holder shall provide details of street lighting proposals prepared in consultation with the power supply authority, to the Council for approval, at the time of submission of the engineering plans and specifications.
- 20.2 The Consent Holder shall engage a Chartered Professional Engineer to design the bases for the light poles considering the location and ground conditions. An installation plan shall be prepared and approved by Council before installation proceeds.
- 20.3 Light poles shall be painted black and subject to final engineering approval. Light bulbs shall be LED type and approved by Council before installation proceeds.

20.4 The Consent Holder shall install at their cost, all lighting approved in accordance with conditions 20.1 to 20.3 inclusive.

21. Geotechnical

21.1 The Consent Holder shall undertake ground improvement works if required to ensure all residential Lots are TC1 or TC2 equivalent. A suitably qualified geotechnical chartered professional engineer shall prepare a detailed design of the ground improvement system that is to be implemented. The detailed design, supporting report and/or calculations, and a 'Producer Statement (Design)' shall be submitted to Council for approval, in writing, prior to works commencing on site.

21.2 A Geotechnical Chartered Professional Engineer with relevant experience in residential development shall oversee the ground improvement construction works and confirm the design assumptions were reasonable. Furthermore, the aforementioned engineer shall submit a 'Producer Statement (Construction)', and a report confirming the completion of the ground improvement works and stating the revised technical category (TC) of the ground to Council for approval, in writing, upon completion of the works.

21.3 The Consent Holder shall carry out further geotechnical investigation recommended by Tonkin & Taylor Ltd (Council record Trim 210302035131) comprising:

- 6 boreholes to 15m depth (or refusal) with SPT tests at 1.5m intervals.
- 30 CPTs to refusal (expected to be around 15m depth).
- Laboratory testing comprising up to 6 Atterberg Limit tests and 6 fines content tests.

Engineering assessment and ground improvement shall be managed appropriately during detailed design and construction

22. Fencing

22.1 The land owner of Lots 603 to 623 inclusive, Lots 625 to 628 inclusive, Lot 631, Lot 632, Lot 635, Lot 636, Lot 639, Lot 640, Lot 700, Lot 701 to 704 inclusive and Lots 733 to 744 inclusive shall pay the full costs of fencing the common boundary with the proposed future Council Local Purpose (Drainage) Reserve or Local Purpose (Recreation) Reserve. Any fencing to a Local Purpose (Recreation) Reserve shall have a maximum height of 1.2m and be minimum 50% visually permeable.

22.2 Condition 22.1, as it applies to Lots 603 to 623 inclusive, Lots 625 to 628 inclusive, Lot 631, Lot 632, Lot 635, Lot 636, Lot 639, Lot 640, Lot 700, Lot 701 to 704 inclusive and Lots 733 to 744 inclusive shall be subject to a consent notice, pursuant to section 221 of the Resource Management Act 1991 and shall register on the Records of Title for each lot.

22.3 Any fencing along the boundary adjacent to Bob Robertson Drive (Collector

Road) for Lot 535, Lots 593 to 602 inclusive shall have a maximum height of 1.2m and be minimum 50% visually permeable.

- 22.4 Condition 22.3, as it applies to the fencing of Lot 535, Lots 593 to 602 inclusive shall be subject to a consent notice pursuant to section 221 of the Resource Management Act 1991, to register on the Records of Title for each lot.

23. Servicing of balance lots

- 23.1 No further subdivision or development shall take place, or any building established on Lots 4000 and 9005 until separate connection is provided to the Rangiora Woodend urban reticulated water, sewer and stormwater services.
- 23.2 Condition 23.1 shall be subject to a consent notice, pursuant to section 221 of the Resource Management Act 1991 and shall register on the Records of title for Lots 4000 and 9005.

24. Conditions Auditing

- 24.1 The Council will audit compliance with the conditions of consent by both site inspections and checking of associated documentation to ensure the work is completed in accordance with the approved plans and specifications and to the Council's standards. The Council will undertake inspections and checking on an at cost basis. The Consent Holder, or their authorised agent, shall notify Council at least one working day prior to commencing various stages of the works. This is to enable audit inspections required by the consent to be performed. Should the Consent Holder wish the Council to accept requests for inspections from any contractors engaged, Council must receive written authorisation. The minimum level of inspection shall be as follows:

Earthworks

- Following stripping of topsoil;
- During progress of the earthworks;
- Prior to filling drainage ditches;
- On completion to final levels.

Access and Right of Ways

- On completion of excavation to sub-grade;
- Following compaction of base course prior to final surfacing;
- When Benkelman Beam tests are being carried out;
- Under kerb and channel, right of way and footpaths the formation shall be tested with the Clegg Impact Hammer and approved as satisfactory by the Council.

Trenching

- Prior to backfilling of services.
- During compaction of the trench backfilling.

Services

- During installation.
- Testing of water, sewer and stormwater mains and laterals.
- During construction of the swales.
- Disinfection of water mains.
- CCTV Inspection.
- Following completion of required works.

Roading, Footpaths, and accesses

- Following shaping of Roothing and footpath sub-grade prior to placement of sub base material.
- Following metalling up, prior to pouring of any concrete kerb and channel and/or footpath.
- Following compaction of base course prior to sealing. The carriageway shall be tested with a Benkelman Beam and the kerb and channel, access and footpath with a Clegg Hammer. The results shall be submitted to Council for approval.

Landscaping

- Before setting out of planting and installation of fixtures.
- On completion of the required works.

Reserves/Street Trees

- Before setting out of planting and installation of fixtures.
- During planting of trees.
- On completion of levels over the reserve, check levels, topsoil quality and depth.
- On completion of the hard landscaping ,including buildings, structures and fixtures prior to issue of completion certificate.
- On completion of the planting, trees and works and after the first grass mow.
- On completion of the required works.
- On completion of the maintenance period.

Whole Works

- Prior to issue of a certificate under Section 224(c) of the Resource Management Act 1991.

- One week prior to end of maintenance period (where applicable)
- On completion of maintenance period (where applicable)

24.2 Where repeat inspections are required because of faulty workmanship or work not being ready contrary to the receipt of a notification, such inspections will be carried out at cost for staff time and vehicle running costs for kilometres travelled.

25. Accidental Discovery Protocol

25.1 Where suspected urupa, wahi tapu, wahi taonga or any place associated with human activity that occurred before 1900 and is discovered:

- Earthworks shall stop immediately;
- All machinery shall be shut down immediately;
- All persons shall leave the area;
- The land owner shall be advised of the discovery;
- Heritage NZ Pouhere Taonga shall be advised of the discovery and either the Regional Archaeologist of the Heritage NZ Pouhere Taonga has confirmed in writing that the archaeologist provisions of the Heritage NZ Pouhere Taonga Act do not apply; or the requirements of the Heritage NZ Pouhere Taonga Act have been met and, if required, an archaeological authority (consent) has been granted by the Heritage NZ Pouhere Taonga;
- Where the place is associated with Maori activity that occurred before 1900 the land owner shall consult Te Ngai Tuahuriri Runanga to determine in consultation with Heritage NZ Pouhere Taonga, what further actions are appropriate to safeguard the site or its contents, and to avoid, reduce, remedy or mitigate any damage to the site; and
- The Waimakariri District Council shall be notified.

25.2 Where koiwi tangata (human remains) are suspected the Consent Holder shall take the following steps:

- Immediately secure the area in a way that ensures the koiwi tangata are untouched.
- Notify Te Ngai Tuahuriri Runanga, the Police and Heritage NZ Pouhere Taonga that it is suspected koiwi tangata have been uncovered.
- The Consent Holder of the site shall see that staff are available to meet and guide kaumatua, police and historic places trust staff to the site, assisting with any requests that they may make.
- Earthmoving operations in the affected area shall only commence when kaumatua, the Police and Heritage NZ Pouhere Taonga staff have marked off the area around the site and have given approval.

- If the kaumatua is satisfied that the koiwi tangata is of Maori origin the Consent Holder shall seek the Kaumatua's decision on how to progress development.

26. Archaeological Protocol

- 26.1 The consent holder shall engage a consulting archaeologist who shall monitor all earthmoving activities and shall advise on methods to be undertaken to ensure that adverse effects on archaeological values are avoided, remedied or mitigated.
- 26.2 The consent holder shall consult with Te Runanga o Ngai Tahu and Te Ngai Tuahuriri Runanga regarding the appointment of the archaeologist. The consent holder shall provide the consulting archaeologist, Te Runanga o Ngai Tahu and TeNgai Tuahuriri Runanga, the following information no less than 25 working days prior to any earth-moving works:
- a) A schedule of the dates of all significant earthmoving events, their sequence and duration;
 - b) A summary of all measures being undertaken to ensure that adverse effects on archaeological values are avoided, remedied, reduced or mitigated.

27. Wahi taonga, wahi tapu and urupa protocol

- 27.1 The Consent Holder shall engage a representative of Te Ngai Tuahuriri Runanga who shall be present during earthworks to act as advisor to the Consent Holder on identification or protection of wahi tapu, wahi taonga, urupa or historic cultural sites.
- 27.2 The Consent Holder shall ensure that staff involved with earthmoving activities have received training and are aware of the requirement to monitor earthmoving activities in a way that enables the identification of wahi tapu, wahi taonga, urupa or historic cultural sites.
- 27.3 The Consent Holder shall immediately cease earthmoving operations should it become apparent that an urupa, wahi tapu, wahi taonga or suspected historical site has been uncovered. In such circumstances the Consent Holder shall shut down all machinery or activity immediately, secure the area and advise the Runanga of the occurrence.

28. Maintenance

- 28.1 The Consent Holder shall be responsible for the maintenance of all subdivision and Council assets vested in Council (excluding reserves, street trees and landscaping) for a period of twelve months following the date of issue of the Engineers Practical Completion certificate. A bond equal to 5% (including GST) of the cost of construction works shall be lodged with Council

for the same period.

28.2 The Consent Holder shall be responsible for the maintenance of all subdivision and maintenance works associated with the Reserves, street trees and landscaping or a period of two years following the date of issue of the Engineers Practical Completion certificate. A bond equal to 5% (including GST) of the cost of construction works shall be lodged with the Council for the same period.

28.3 Maintenance shall include:

- Appropriate and regular mowing of grass and swales as well as watering of all plants and trees together with the replacement of any dead specimens including wetland plants.
- Repair of any damage or defects in any of the works or services associated with the development of the subdivision as consented to.
- Full operation and provision of a maintenance program.

29. As Built Plans

29.1 The Consent Holder shall provide daily site sealing records and beam test results from the Sealing Contractor as part of the As Built record, to enable accurate RAMM records to be established for the new road construction.

29.2 Copies of all test results, Producer Statements, certification, inspections, Sharefile or USB of CCTVs shall be provided to the Council's satisfaction. Digital photo images of the inside of all manholes shall be provided, accurate As Built" plans including long sections setting out in detail the location of all utilities and services, landscape planting and recreation reserves shall be provided to the Council immediately following completion of the works and shall be available at the time of the 224(c) Condition Certificate inspection.

29.3 'As Built' plans including long sections setting out in detail the location of all utilities and services, road infrastructure (including footpaths), landscape planting and recreation reserves shall be provided to the Council immediately following completion of the works and shall be available at the time of the 224(c) Certificate inspection.

29.4 An electronic set of 'As Built' plans shall be provided at a scale of 1:1000 and 1:500. In addition to the plans a Chartered Professional Engineer or Registered Professional Surveyor shall provide a separate certificate stating that the 'As Built' plans are a true and accurate record of all services.

29.5 The Consent Holder shall provide an asset register spreadsheet for all assets to be vested in Council, including pipes, valves, fittings, manholes, structures, roading and footpaths.

30. Works Condition

- 30.1 A certificate under Section 224(c) of the Resource Management Act 1991 will not be issued until conditions 1 - 29 above have been met to the satisfaction of the Waimakariri District Council, at the expense of the Consent Holder.

Land Use – RC215105

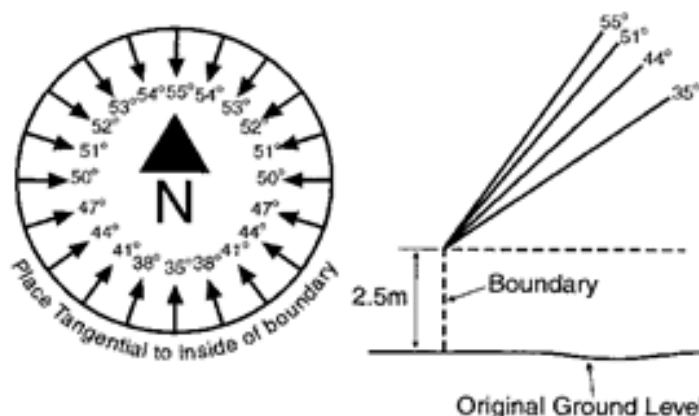
THAT pursuant to Section 104B of the Resource Management Act 1991 consent be granted to allow 40% structure coverage of the net area for Lots 535 - 759 inclusive from lots created as part of Stage 4 subdivision (RC205104) at 45 Bob Robertson Drive, Woodend, being Lot 9001 DP 533428 and Lot 1 DP 57316, Lots 500 and 501 DP 521536 as a discretionary activity subject to the following conditions which are imposed under Section 108 of the Act:

1. Dwellings located on for Lots 535 - 759 inclusive shall be subject to the following design criteria:
 - (a) A maximum structure coverage of 40% of the net site area.
 - (b) Any dwelling on the site shall have a maximum height of 5.5 metres.
 - (c) Any garage or carport erected on the lot shall be located at least 1 metre further from the street frontage than the main front facade of the dwelling, except where a side garage is constructed in compliance with subclauses (d) and (e).
 - (d) The side wall of any garage erected on the site adjacent to the road boundary shall not exceed 50% of the lot frontage or 6.5 metres in length, whichever is lesser.
 - (e) For any garage where a side wall is adjacent to the road boundary, the side wall shall contain a minimum of 2m² of glazing or contrasting materials.
 - (f) Any dwelling shall be located a minimum of 2 metres from any road boundary.
 - (g) Any dwelling shall be set back a minimum of 1 metre from one side boundary.
 - (h) Where a structure is located within 1 metre of a side boundary, the structure shall not exceed 10m in length at which point a step-in from the side boundary of a minimum 0.5m depth shall be provided. The step-in shall be a minimum of 2.5 m metres in length.
 - (i) Each lot shall provide a minimum outdoor living space of 30m² with minimum dimensions of 4m x 6m. At least half of the required minimum area, and the access to the outdoor living space, shall be able to receive sunshine at midday on the shortest day of the year.
 - (j) The front door of the dwelling shall directly face the street and be visible from the street.
 - (k) The total area of glazing provided facing the road frontage of any floor of any dwelling shall be a minimum of 3m².
 - (l) All land between the dwelling and the street, except in areas required for

vehicle or pedestrian access, shall be landscaped or lawn.

Note: "Landscaped" includes the provision of trees, shrubs, hedges and also includes grassed lawn.

- (m) All dwellings shall allow an area of at least 3 metres x 1.5 metres for storage of rubbish bins. If that storage area is located between the dwelling and front boundary then it shall be screened by a 1.2 metre minimum height timber board or trellis fence.
- (n) Except when providing screening of an outdoor storage area as required in condition (m) above, any fencing which is located forward of the front façade of the dwelling, except for common internal boundary fencing shall have a maximum height of 1.2 metres and a minimum visual permeability/openness of 50%.
- (o) No structure shall project beyond the building envelope defined by recession planes constructed 2.5 metres above any site boundary. Recession planes shall be measured using the following diagram.



Land Use – RC215105

THAT pursuant to Section 104B of the Resource Management Act 1991 consent be granted to undertake earthworks exceeding an area of 300m³ per 1000m², on Lot 9001 DP 533428 and Lot 1 DP 57316, Lots 500 and 501 DP 521536 at 45 Bob Robertson Drive, Woodend subject to the following conditions which are imposed under Section 108 of the Act:

- 1. Except as required to comply with the following conditions, the activity shall be carried out in accordance with the attached approved application plans, stamped RC215104 and RC215105.
- 2. **Standards**
 - 2.1 All stages of design and construction shall be in accordance with the following standards (and their latest amendments) where applicable:

Council Standards

- Waimakariri District Council Engineering Code of Practice.

Other Standards

- National Code of Practice for Utility Operators Access to Transport Corridors.
- NZ Transport Agency 2010 standards.
- Relevant Ausroads Guides & standards.
- NZS 4404 - Urban Land Subdivision.
- NZS 4431 - Earthfill for Residential Development.
- NZS 6803:P1999 Measurement and Assessment of Noise from Construction Maintenance, and Demolition Work.

3. Earthworks

- 3.1 Where land filling is to be undertaken, the areas affected together with dimensions relative to the created property boundaries, shall be shown on the "As Built" plans to be supplied to the Council.
- 3.2 Any areas of fill, or earthworks not certified in accordance with NZS 4431:1989 shall, together with sufficient dimensions to locate the feature relative to property boundaries, be registered on the land transfer title plans, and shown on the "As-built" plans.
- 3.3 Where excavated cut material is greater than 200mm in thickness, the consent holder shall undercut and replace with 100mm minimum of compacted topsoil.
- 3.4 Earthworks, reshaping or fill shall not alter natural ground level by more than 300mm where it is carried out within 2 metres of the boundary of the site.
- 3.5 Earthworks, reshaping or fill shall not alter natural ground level by more than 600mm where it is carried out within 2-10 metres of the boundary of the site.
- 3.6 No earthworks, reshaping or fill shall impede or reshape any drain, overland flow path or channel, and shall not create ponding of stormwater in any adjacent land in separate ownership. Stockpiles of excavated material or fill shall be located a minimum of 100 metres away from neighbouring dwellings. The height of the stockpiles shall be limited to 8.0 metres above surrounding ground level.

- 3.7 All rubbish, organic or other unsuitable material shall be removed off site to an approved site where this material can be legally disposed of.
- 3.8 The Consent Holder shall, where material needs to be imported, provide details as to the source and type of material, laboratory tests to confirm mode of compaction, type and frequency of transportation and the route used to enter the site.
- 3.9 Earthworks shall only be undertaken between the hours of 7am to 7pm on Monday to Saturday. No earthworks shall take place on Sundays or public holidays.
- 3.10 Construction noise shall not exceed the recommended limits specified in, and shall be measured and assessed in accordance with, the provisions of NZS: 6803: P1999 "*Measurement and Assessment of Noise from Construction, Maintenance, and Demolition Work*". Adjustments and exemptions provided in clause 6 of NZS: 6803: P1999 shall apply.
- 3.11 The Consent Holder shall ensure all lots are shaped to slope to the roadside kerb and channel / swale / to the head of the right of way serving each lot / to an approved outfall, without discharging across adjacent lots.

4. Environmental Management Plan

- 4.1 Prior to any works on site, the Consent Holder shall provide an Environmental Management Plan (EMP) to the Council for approval in writing. The EMP shall detail the methodology of works and the environmental controls in place to limit the effects from issues such as flooding, dust, noise, pollution, wildlife. No works shall occur until this EMP has been submitted and approved by Council in writing.
- 4.2 All works shall be carried out in accordance with the approved EMP including any subsequent amendments.
- 4.3 The Consent Holder shall be responsible for installing and maintaining any sediment control devices, protection of the existing land drainage and waterways, and making regular inspections, repairs and changes to the proposed measures as required.
- 4.4 The Consent Holder shall obtain the Council's approval, in writing, prior to undertaking works that do not accord with the EMP as a result of adverse site conditions or because amendments are required.

5. Construction Traffic Management Plan

- 5.1 The Consent Holder shall prepare a Construction Traffic Management Plan (CTMP), to be submitted for approval by Council in writing as the road controlling authority as part of the Engineering Approval process.
- 5.2 The CTMP shall, as a minimum include the following:

- A location plan showing the proposed works, site access points, site yard, and any other point on the local roading network to be regularly accessed during the works.
- A schedule of various work stages and anticipated traffic generation.
- A schedule of roads to be used for haul roads for supply of materials, as well as haul roads used between various stages/locations of the work site.
- The hours during which traffic will be generated in the vicinity of the site.
- Identification of events, holidays and other periods when traffic patterns are likely to be uncharacteristic
- Details of signage, speed restrictions, detours, road closures and any other traffic management provisions to meet the requirements described in the NZTA Code of Practice for Temporary Traffic Management.
- Contact names and telephone numbers, including 24 hour emergency contact details.

5.3 The consent holder shall meet with Councils Roading Compliance Engineer to discuss the requirements of the Temporary Traffic Management, with submission of all required Traffic Management Plans shall be approved by Council, in writing, prior to any works commencing on site.

5.4 The Consent Holder shall review and change the CTMP if and when required, in conjunction with the relevant stakeholders. Any changes shall be submitted to the Council for approval.

6. Engineering Plan Approvals

6.1 Three copies of the design, plans, and specifications of all works shall be submitted to the Council for approval. Approval of complying documents shall be given in writing and work shall not commence until this has been received from the Council.

6.2 The Consent Holder shall forward with the design, engineering plans and specifications and copies of any other consents granted in respect of this subdivision. Overland flow paths shall be retained.

6.3 Any subsequent amendments to the design, plans, and specifications shall be submitted to Council for approval in writing.

7. Accidental Discovery Protocol

- 7.1 The consent holder shall engage a consulting archaeologist who shall monitor all earthmoving activities and shall advise on methods to be undertaken to ensure that adverse effects on archaeological values are avoided, remedied or mitigated.
- 7.2 The consent holder shall consult with Te Runanga o Ngai Tahu and Te Ngai Tuahuriri Runanga regarding the appointment of the archaeologist. The consent holder shall provide the consulting archaeologist, Te Runanga o Ngai Tahu and Te Ngai Tuahuriri Runanga, the following information no less than 25 working days prior to any earth-moving works:
- a) A schedule of the dates of all significant earthmoving events, their sequence and duration;
 - b) A summary of all measures being undertaken to ensure that adverse effects on archaeological values are avoided, remedied, reduced or mitigated.

8. Wahi taonga, wahi tapu and urupa protocol

- 8.1 The Consent Holder shall engage a representative of Te Ngai Tuahuriri Runanga who shall be present during earthworks to act as advisor to the Consent Holder on identification or protection of wahi tapu, wahi taonga, urupa or historic cultural sites.
- 8.2 The Consent Holder shall ensure that staff involved with earthmoving activities have received training and are aware of the requirement to monitor earthmoving activities in a way that enables the identification of wahi tapu, wahi taonga, urupa or historic cultural sites. Te Runanga o Ngai Tahu and Te Ngai Tuahuriri Runanga shall be contracted to provide appropriate training to such staff.
- 8.3 The Consent Holder shall immediately cease earthmoving operations should it become apparent that an urupa, wahi tapu, wahi taonga or suspected historical site has been uncovered. In such circumstances the Consent Holder shall shut down all machinery or activity immediately, secure the area and advise the Runanga of the occurrence.

9. Conditions Auditing

- 9.1 The Council will audit compliance with the conditions of consent by both site inspections and checking of associated documentation to ensure the work is completed in accordance with the approved plans and specifications and to the Council's standards. The Council will undertake inspections and checking on an at cost basis. The Consent Holder, or their authorised agent, shall notify Council at least one working day prior to commencing various stages of the works.

Earthworks

- Following the erection/construction of all measures to accord with the Council approved site specific Environmental Management Plan.
- Following topsoil removal and excavation to subgrade.
- During construction to inspect subsoils
- After soiling, prior to sowing.

Accesses

- On completion of excavation to sub-grade.

9.2 Where repeat inspections are required because of faulty workmanship or work not being ready contrary to the receipt of a notification, such inspections will be carried out at cost for staff time and vehicle running costs for kilometres travelled.

10. Inspection

10.1 Compliance with the above conditions shall be verified by inspection by a Council Officer pursuant to section 35(2)(d) of the Resource Management Act 1991.

10.2 For inspection/s conducted under the above condition, the consent holder shall pay to the Council charges pursuant to section 36(1)(c) of the Resource Management Act 1991 to enable the Council to recover its actual and reasonable costs in carrying out the inspections.

Land Use – RC215105

THAT pursuant to Section 104B of the Resource Management Act 1991 consent be granted to install non-complying vehicle crossings which will not meet the separation distance requirements from vehicle crossings on other properties, on Lots 546 to 549 inclusive, Lot 571, Lot 629, Lot 630, Lot 633, Lot 634, Lot 637, Lot 638, and Lot 641 created from subdivision RC215104, being Lot 9001 DP 533428 and Lot 1 DP 57316, Lots 500 and 501 DP 521536, at 45 Bob Robertson Drive, Woodend, subject to the following conditions which are imposed under Section 108 of the Act:

1. Application Plan

1.1 Except as required to comply with the following conditions, the activity shall be carried out in accordance with the attached approved application plans, stamped RC215104 and RC215105.

2. Access

2.1 The property owner shall Clegg Hammer test the accesses prior to sealing. A measured Clegg Impact Value of at least 25 for footpaths and residential crossings shall be obtained to assure adequate compaction and pavement strength prior to sealing. Documentation shall be supplied to Council confirming the test results obtained.

- 2.2 The vehicle crossings shall be formed and sealed to accord with Waimakariri District Council Engineering Code of Practice Standard Drawing 600-211A (Issue E) / 600-211D (Issue D).

3. Traffic Management Plan

- 3.1 The consent holder shall submit for approval a Traffic Management Plan detailing traffic control works (including sketch layout and control signs). This plan shall be submitted prior to work commencing in road reserves. Management shall be to Level 1, or Level LV where the estimated traffic volume is less than 500 vehicle per day, as described in the NZTA Code of Practice for Temporary Traffic Management.

4. Conditions Auditing

- 4.1 The Council will audit compliance with the conditions of consent by both site inspections and checking of associated documentation to ensure the work is completed in accordance with the approved plans and specifications and to the Council's standards. The Council will undertake inspections and checking on an at cost basis. The Consent Holder, or their authorised agent, shall notify Council at least one working day prior to commencing various stages of the works.

Accesses

- On completion of excavation to sub-grade;
 - Following compaction of base course prior to final surfacing;
 - When Benkelman Beam tests are being carried out;
 - Upon final completion
- 4.2 Where repeat inspections are required because of faulty workmanship or work not being ready contrary to the receipt of a notification, such inspections will be carried out at cost for staff time and vehicle running costs for kilometres travelled.

Land Use – RC215105

THAT pursuant to Section 104B of the Resource Management Act 1991 consent be granted to install non-complying vehicle crossings which will not meet the separation distance requirements between new vehicle crossings and intersections on Lots 535, 536, 573, 593, created from subdivision RC215104 on Lot 9001 DP 533428, Lot 1 DP 57316, Lots 500 & 501 DP 521536 at 45 Bob Robertson Drive, Woodend, subject to the following conditions which are imposed under Section 108 of the Act:

1. Application plan

- 1.1 Except as required to comply with the following conditions, the activity shall be carried out in accordance with the attached approved application plans, stamped RC215104 and RC215105.

2. Access

- 2.1 The property owner shall Clegg Hammer test the access/all accesses prior to

sealing. A measured Clegg Impact Value of at least 25 for footpaths and residential crossings shall be obtained to assure adequate compaction and pavement strength prior to sealing. Documentation shall be supplied to Council confirming the test results obtained.

- 2.2 The vehicle crossings shall be formed and sealed to accord with Waimakariri District Council Engineering Code of Practice Standard Drawing 600-211A (Issue E) / 600-211D (Issue D).
- 2.3 The northern edge of the vehicle crossing for Lot 535 shall be located within 1 metre of the northern internal boundary of the lot.
- 2.4 The northern edge of the vehicle crossing for Lot 593 shall be located within 1 metre of the northern internal boundary of the lot.

3. Traffic Management Plan

- 3.1 The consent holder shall submit for approval a Traffic Management Plan detailing traffic control works (including sketch layout and control signs). This plan shall be submitted prior to work commencing in road reserves. Management shall be to Level 1, or Level LV where the estimated traffic volume is less than 500 vehicle per day, as described in the NZTA Code of Practice for Temporary Traffic Management.

4. Conditions Auditing

- 4.1 The Council will audit compliance with the conditions of consent by both site inspections and checking of associated documentation to ensure the work is completed in accordance with the approved plans and specifications and to the Council's standards. The Council will undertake inspections and checking on an at cost basis. The Consent Holder, or their authorised agent, shall notify Council at least one working day prior to commencing various stages of the works.

Accesses

- On completion of excavation to sub-grade;
- Following compaction of base course prior to final surfacing;
- When Benkelman Beam tests are being carried out;
- Upon final completion

Where repeat inspections are required because of faulty workmanship or work not being ready contrary to the receipt of a notification, such inspections will be carried out at cost for staff time and vehicle running costs for kilometres travelled.

REASONS FOR THE DECISION

Pursuant to Section 113 of the Act the Council was satisfied that:

- The environmental effects will be less than minor due to the Residential 6 character of the proposed subdivision, and the dwelling design controls

applied to ensure any potential effects on amenity and residential character will be less than minor.

- No person is deemed to be adversely affected by the proposal as the residential amenity and character will be maintained.
- The use of reticulated services for the provision of water sewage, sewer and stormwater services at the site will appropriately provide servicing to all lots in accordance with the relevant standards.
- Access and roading will comply with the engineering code of practice or be designed to provide for safe and efficient use of road network.
- The majority of the remedial works have been carried out and completed under RC145518 and no new HAIL activities have been introduced to the site since the previously consented remediation works, therefore any effects on human health will be less than minor.
- The Accidental Discovery Protocol and planting of locally sourced indigenous vegetation as part of the landscaping plan and the use of Maori Street names will ensure any potential effects on cultural values will be less than minor.
- Any effects caused by earthworks can be avoided or mitigated by the implementation of an Environmental Management Plan.
- The non-complying vehicle crossings will have less than minor traffic safety effects on the environment as there is good visibility and sightlines and the formation standard of the vehicle crossings contributes to the efficiency of access to and from the road network.
- A sufficient amount of on-street parking exists in the surrounding area and adequate amount of space for on-site parking.
- The proposal is in accordance with the Objectives and Policies of the District Plan.

ADVICE NOTES

- (a) The Consent Holder is encouraged to consider the use of Māori Street names within the subdivision, to acknowledge the significance of the area to Ngāi Tūāhuriri.
- (b) The planting of locally sourced indigenous vegetation as part of any landscaping plan submitted to Council, should acknowledge and take into account the significance of the area to Ngāi Tūāhuriri.
- (c) The Consent Holder is advised that requirements and conditions listed are a statement of the Council's minimum standards. Where the Consent Holder proposes alternative higher standards or more aesthetically acceptable alternatives then these shall be submitted to the Council for approval, in writing.
- (d) No excavation shall commence within a public road reserve without the prior receipt of a Corridor Access Request (CAR).

- (e) The Consent Holder is be advised that development contributions apply to this subdivision and that these will be levied in accordance with the existing Private Developers Agreement or any subsequent amendments.
- (f) The consent holder is advised that Producer Statement Design and Construction forms can be sourced from the 'Engineering Code of Practice Part 3 Quality Assurance', Council Service Centres, Section or on-line at: <https://www.waimakariri.govt.nz/home>
- (g) The consent holder is advised that Traffic Management Plan forms can be sourced from Council Service Centres or on-line at: <https://www.waimakariri.govt.nz/home>
- (h) Electrical and telephone reticulation requires that the network structures be available. In some cases, such as in rear lots, this could mean that ducting only is provided to the lot from the service box.
- (i) The Erosion & Sediment control Toolbox for Canterbury can be found on the ECan website link CRC Erosion & Sediment Control Toolbox <http://esc.canterbury.co.nz/>
- (j) Prior to construction of a dwelling the applicant will be required to provide evidence of the building site being able to support building loads and not subject to material damage due to any erosion, falling debris, subsidence, slippage or inundation.

DATED at Rangiora this 15th Day of July 2021



SIGNED by Ian Carstens
RESOURCE MANAGEMENT PLANNER